



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Raynor Garage Doors
1101 East River Road, P.O. Box 448
Dixon, IL 61021

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: TradeMark Steel Sectional Garage Door up to 18'-2" Wide

APPROVAL DOCUMENT: Drawing No. P-3308, titled "Spec, Wind Load TradeMark", sheets 1 through 3 of 3, dated 10/23/2009, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 12-0517.14 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Signature]
09/02/2015

NOA No. 15-0721.06
Expiration Date: October 20, 2020
Approval Date: September 10, 2015
Page 1

Raynor Garage Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS “Submitted under NOA # 10-0420.02”

1. Drawing No. P-3308, titled “Spec, Wind Load TradeMark”, sheets 1 through 3 of 3, dated 10/23/2009, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E.

B. TESTS “Submitted under NOA # 10-0420.02”

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of 16’x 7’ TradeMark Sectional Steel Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. G493-1102-09, dated 02/03/2010, signed and sealed by Vinu J. Abraham, P.E.
2. Test report on Forced Entry Resistance Test, per FBC 2411 3.2.1, TAS 202-94 of two (one TradeMark and one Showcase) 16’x 7’ Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. G493-0706-10, dated 08/10/2010, signed and sealed by Vinu J. Abraham, P.E.
3. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Laboratories, Test Report No. 0037T, dated 01/20/2010, signed and sealed by Ramesh Patel, P.E.
4. Test report on Salt Spray per ASTM B117 of painted G40 galvanized painted steel, prepared by Wendler Engineering Services, Inc., dated 04/12/2010, signed and sealed by Richard A. Baumann, P.E.

C. CALCULATIONS “Submitted under NOA # 10-0420.02”

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 04/13/2010, signed and sealed by Richard A. Baumann, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)


09/02/2015

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 15-0721.06

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E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

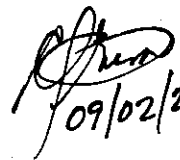
1. Statement letter of code conformance to the 5th edition (2014) FBC and of no financial interest issued by Wendler Engineering Services, Inc., dated 07/01/2015, signed and sealed by Richard A. Baumann, P.E.

"Submitted under NOA # 12-0517.14"

2. Statement letter of code conformance to 2010 FBC, issued by Wendler Engineering Services, Inc., dated 05/14/2012, signed and sealed by Richard A. Baumann, P.E.

"Submitted under NOA # 10-0420.02"

3. Statement letter of code conformance with FBC 2007, issued by Wendler Engineering Services, Inc., dated 04/12/2010, signed and sealed by Richard A. Baumann, P.E.
4. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 04/12/2010, signed and sealed by Richard A. Baumann, P.E.

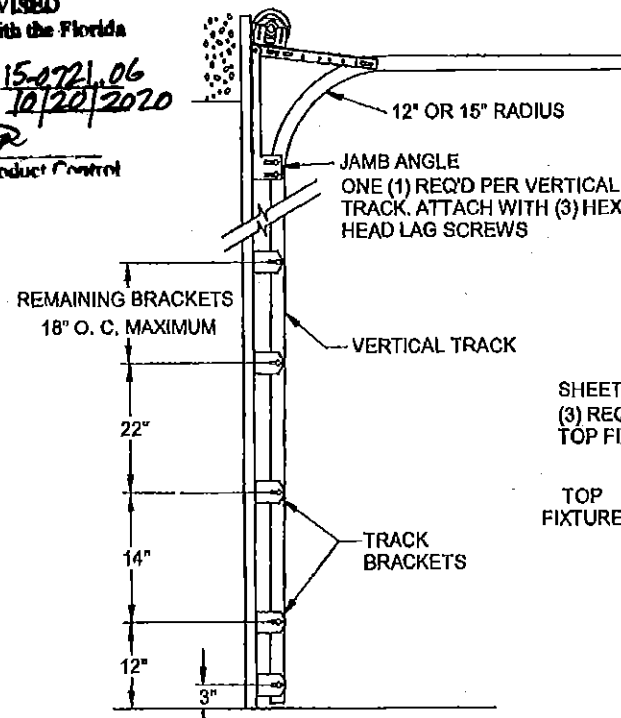


09/02/2015

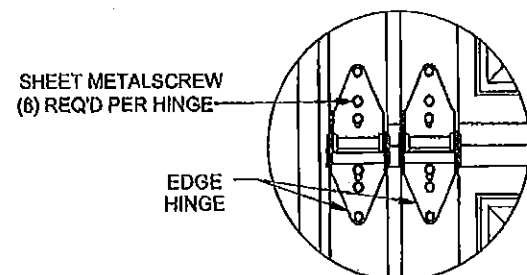
Carlos M. Utrera, P.E.
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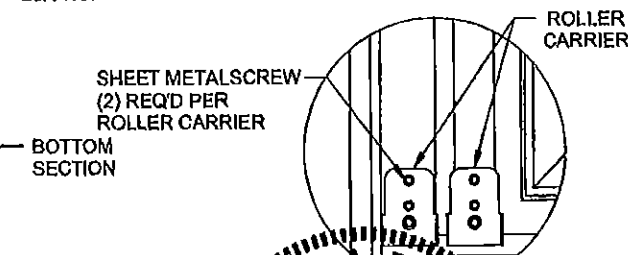
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0721-06
Expiration Date 10/20/2020
By *[Signature]*
Miami Dade Product Control



TYPICAL TRACK INSTALLATION
NORMAL HEADROOM TRACK SHOWN, LOW HEADROOM, LIFT
CLEARANCE AND VERTICAL LIFT TRACK AVAILABLE

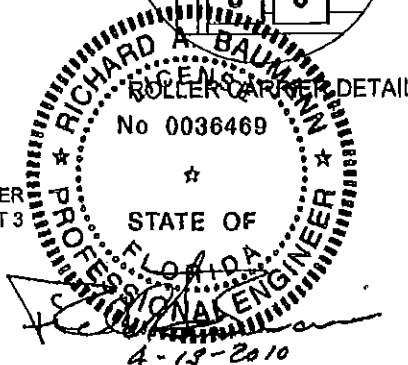


EDGE HINGE DETAIL



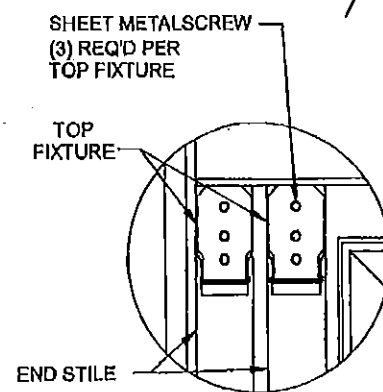
ASTRAGAL RETAINER
SEE DETAIL ON SHT 3

SECTION A-A
4 SECTION HIGH DOOR SHOWN

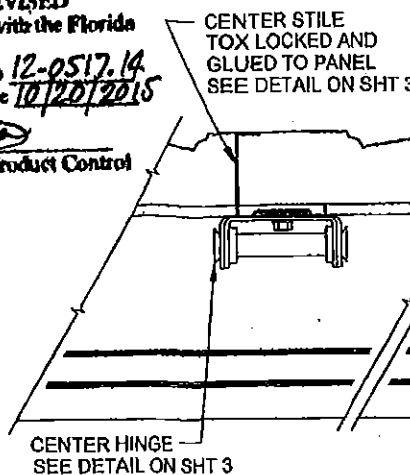


STEEL SECTION
TRADEMARK .023 THICK G-40 GALVANIZED STEEL
WITH AN EPOXY PRIMER AND BAKED ON POLYESTER
FINISH WHICH IS ROLL-FORMED WITH WOOD GRAIN
TEXTURE AND STAMPED WITH EMBOSSED OR FLUSH
PANELS. MINIMUM YIELD STRENGTH = 36140 PSI

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TOP FIXTURE DETAIL



SECTION B-B

SPRING COUNTERBALANCE
SPRING WIRE INDIVIDUALLY
CALCULATED TO COUNTERBALANCE
DOOR. QUANTITY AND SIZE OF SPRING
WILL VARY BASED ON DOOR SIZE.

PERIMETER SEAL
NAILED 8" O.C. WITH
4d STEEL NAILS

BLOCKING
2-1/8" X 1-1/2"
END STILES
TOX LOCKED
TO PANEL
SEE DETAIL
ON SHT 3
END STILE
RIVETED TO
PANEL

1" LAP JAMB

Approved as complying with the
Florida Building Code
Date 10/20/2010
NOAH 10-0420-02
Miami Dade Product Control
Division *[Signature]*
By *[Signature]*

JAMBS
2X8 #2 DOUGLAS FIR OR
BETTER WOOD JAMB SEE
SHT 2 FOR ATTACHMENT
HEX HEAD LAG SCREW
(2) PER BRACKET, SEE DETAIL
ON SHT 3
TRACK BRACKET
SEE DETAIL ON SHT 3
TRACK BOLT / WHIZ LOCK NUT
SEE DETAIL ON SHT 3
TRACK ROLLER
SEE DETAIL ON SHT 3
TRACK, 2" SHOWN 3" OPTIONAL
SEE DETAIL ON SHT 3

DOOR HEIGHT
7'-0" HIGH
SHOWN
OTHER DOOR
HEIGHTS
AVAILABLE UP
TO 16'-0" USING
18" OR 21" HIGH
SECTIONS

STEEL REINFORCEMENT
ONE (1) BOX STRUT PER
SECTION, FASTENED TO ALL
CENTER AND END STILES
USING (2) SHEET METAL
SCREWS AT EACH
LOCATION

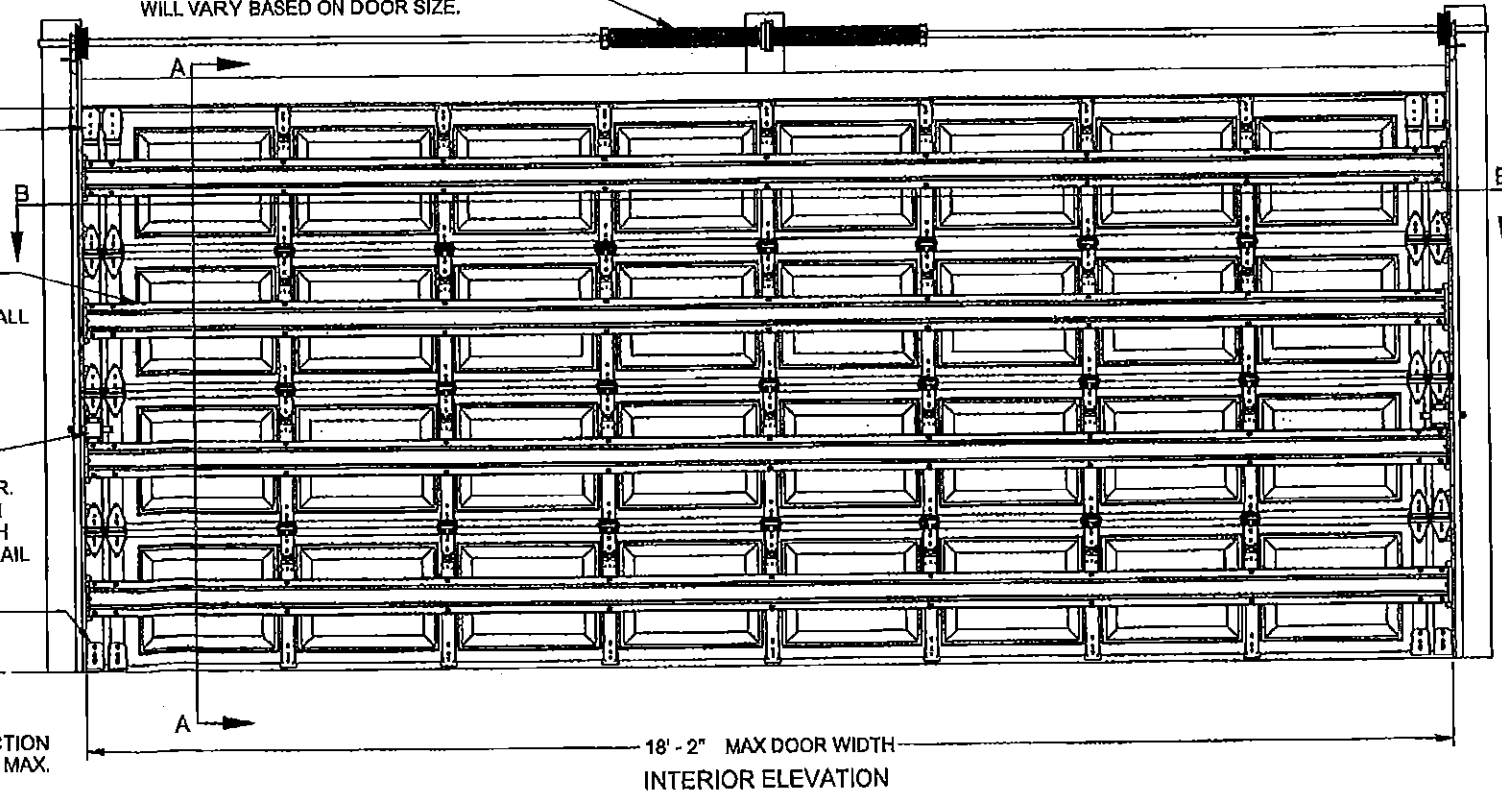
INTERIOR LOCK
TWO (2) REQ'D PER DOOR.
LOCATE OPPOSITE EACH
OTHER TO ENGAGE EACH
TRACK 5/8" MIN. SEE DETAIL
ON SHT 3

ROLLER CARRIER
SEE DETAIL ON SHT 3

VENTS (OPTIONAL)
VENT OPENINGS MAY BE
LOCATED IN BOTTOM SECTION
AS REQUIRED. 120 SQ. IN. MAX.

DOOR WIDTH	DESIGN LOAD
UP TO 18'-2"	+43.5 -50.0

DOORS TESTED PER TAS 202
FOR STATIC AIR PRESSURE
TESTED PER TAS 201 AND TAS 203 FOR LARGE
MISSILE IMPACT AND CYCLIC WIND PRESSURE
LARGE MISSILE IMPACT RESISTANT

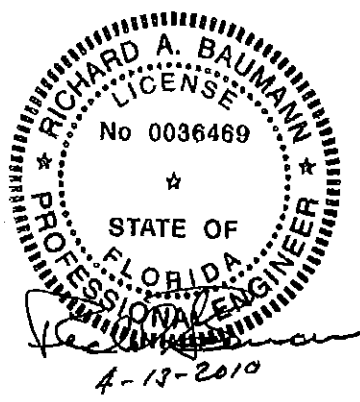
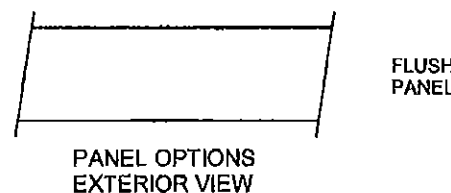
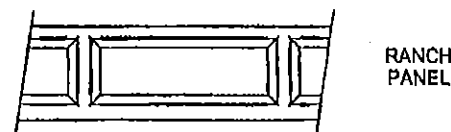
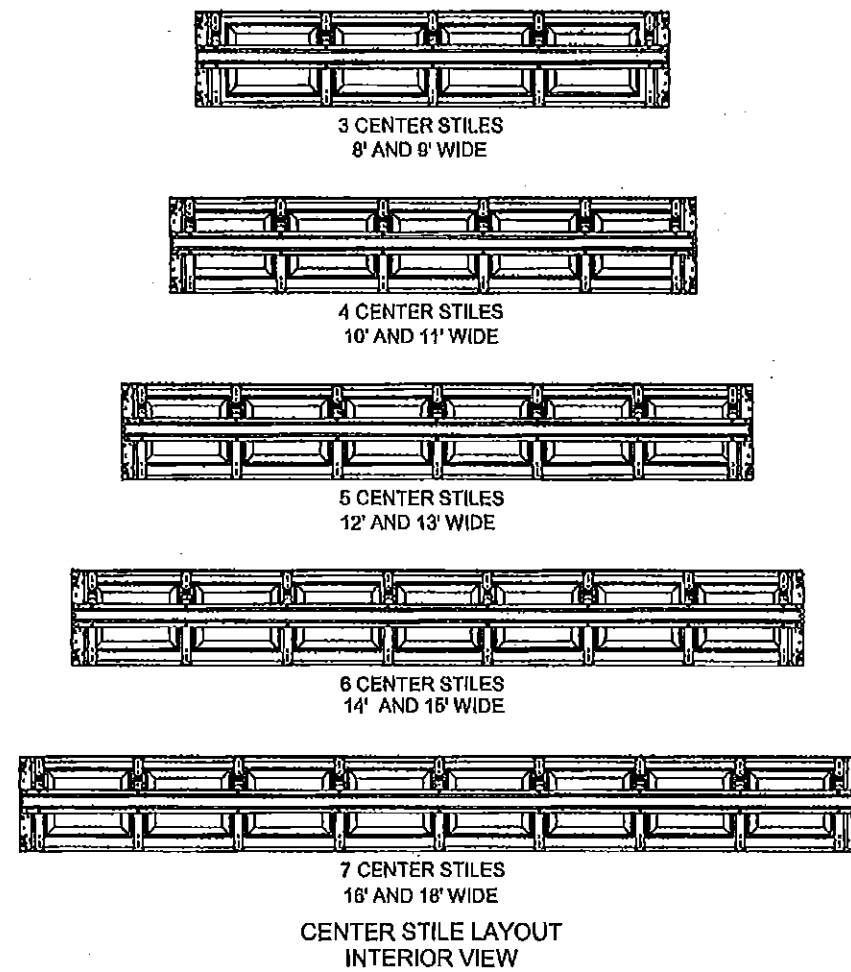


SCALE: NONE		DRAWN BY: G. WEDEKIND		CHECKED BY: G. WEDEKIND	
PRELIMINARY RELEASE		10/23/09		DATE: 10/23/09	
REV.	DESCRIPTION	ECO	DATE	ECO	
A	PRELIMINARY RELEASE				



1101 EAST RIVER ROAD
DIXON, IL 61021

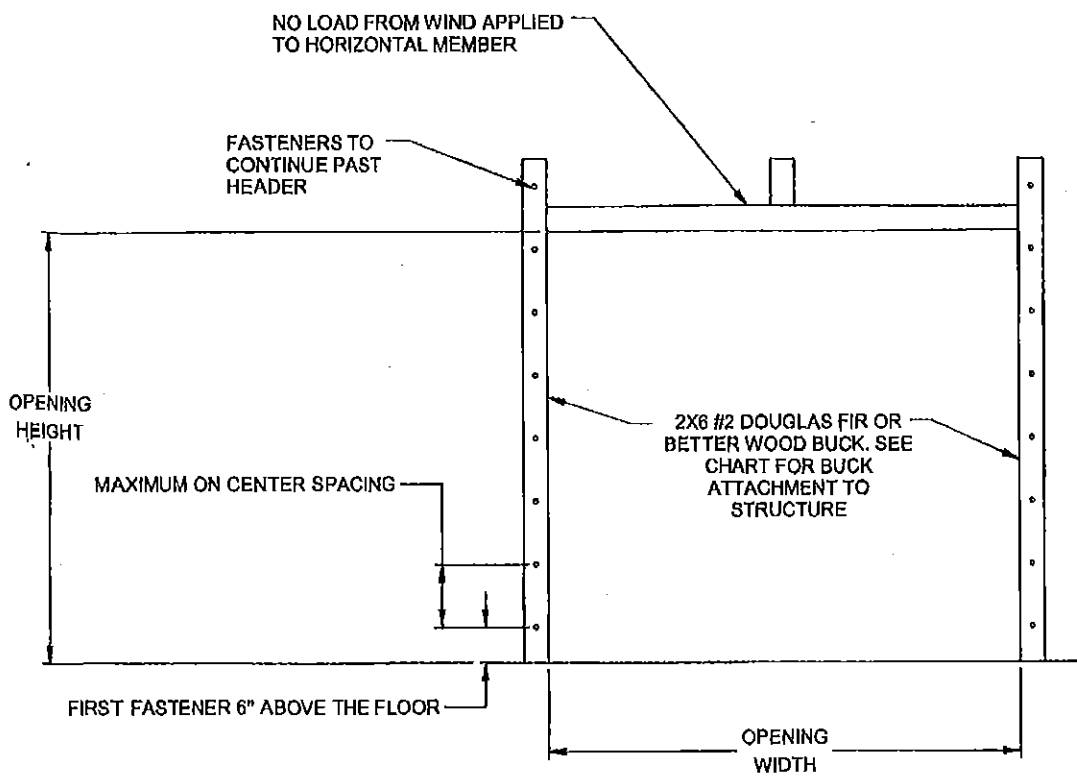
TITLE: SPEC, WINDLOAD TRADEMARK			
NO. P-3308	SHEET 1 OF 3	REV A	



JAMB ATTACHMENT NOTES

- 1/4" DIAMETER ANCHORS REQUIRE 5/8" MIN. O.D. STEEL WASHER.
- 5/16" AND 3/8" DIAMETER FASTENERS REQUIRE 7/8" MIN O.D. STEEL WASHER.
- MAXIMUM POSITIVE LOAD PER JAMB = (18' X 43.5 PSF) / 2 = 391.5 LBS PER FOOT
- MAXIMUM NEGATIVE LOAD PER JAMB = (18' X 50 PSF) / 2 = 450 LBS PER FOOT.
- DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE JAMB LOADS LISTED IN NOTES 3 AND 4.

JAMB MATERIAL	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE	ALLOWABLE TENSION LOAD	MAXIMUM ON CENTER SPACING
GROUT FILLED BLOCK	5/16" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	4"	487	14-3/4"
3192 PSI CONCRETE	1/4" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	1"	510	15-1/4"
2899 PSI CONCRETE	5/16" DIA X 3 3/4" LONG ITW TAPCON	2 1/4"	1 9/16"	713	21-1/2"
2000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	360	10-3/4"
4000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	570	17-1/4"
WOOD DOUGLAS FIR (G=46)	5/16" DIA. X 3 1/2"	1 1/2"	1"	352	10-1/2"
WOOD SYP (G=55)	5/16" DIA. X 3 1/2"	1 1/2"	1"	460	13-3/4"



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Miami Trade Product Control

Approved as complying with the
Florida Building Code
Date 10/20/2010
NOAF 15-0420.02
Miami Trade Product Control
Division *[Signature]*
By *[Signature]*

REV.	DESCRIPTION	ECO	DATE	SCALE: NONE	 1101 EAST RIVER ROAD DIXON, IL 61021	TITLE: SPEC. WINDLOAD TRADEMARK		
				DRAWN BY: G. WEDEKIND		NO. P-3308	SHEET 2 of 3	REV A
				CHECKED BY: G. WEDEKIND				
				DATE: 10/23/09				
				ECO:				

